

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED APPROVED CONFIGURATIONS	09/19/2022	R.L.

NOTES:

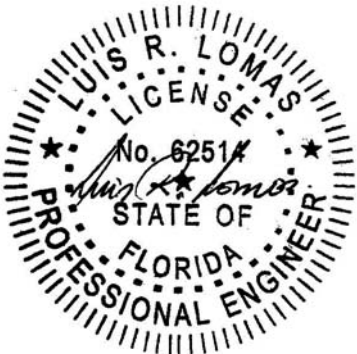
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" ELCO ULTRACON

- TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 16. FOR ANCHORING THROUGH CLIP INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 17. FOR ANCHORING THROUGH CLIP INTO MASONRY/CONCRETE USE 1/4" ELCO ULTRACON TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 18. FOR ANCHORING THROUGH CLIP INTO METAL STRUCTURE USE #8 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 19. ALL FASTENERS TO BE CORROSION RESISTANT.
 20. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM
 21. APPROVED CONFIGURATIONS: OOX, XOO, OX, XO.

SIGNED: 09/19/2022

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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
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5 - 7	INSTALLATION DETAILS
8	COMPONENTS

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 1615/1617 PVC SLIDING GLASS DOOR IMPACT NOTES		
DRAWN: A.R.	DWG NO. 08-03127	REV C
SCALE NTS	DATE 06/15/17	SHEET 1 OF 10
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

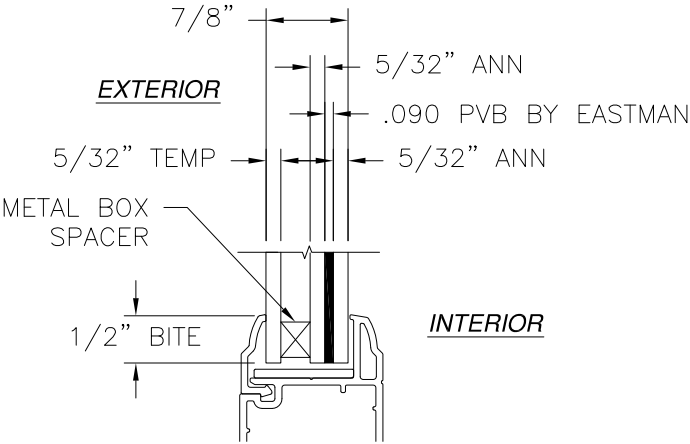


Luis R. Lomas P.E.
FL No.: 62514

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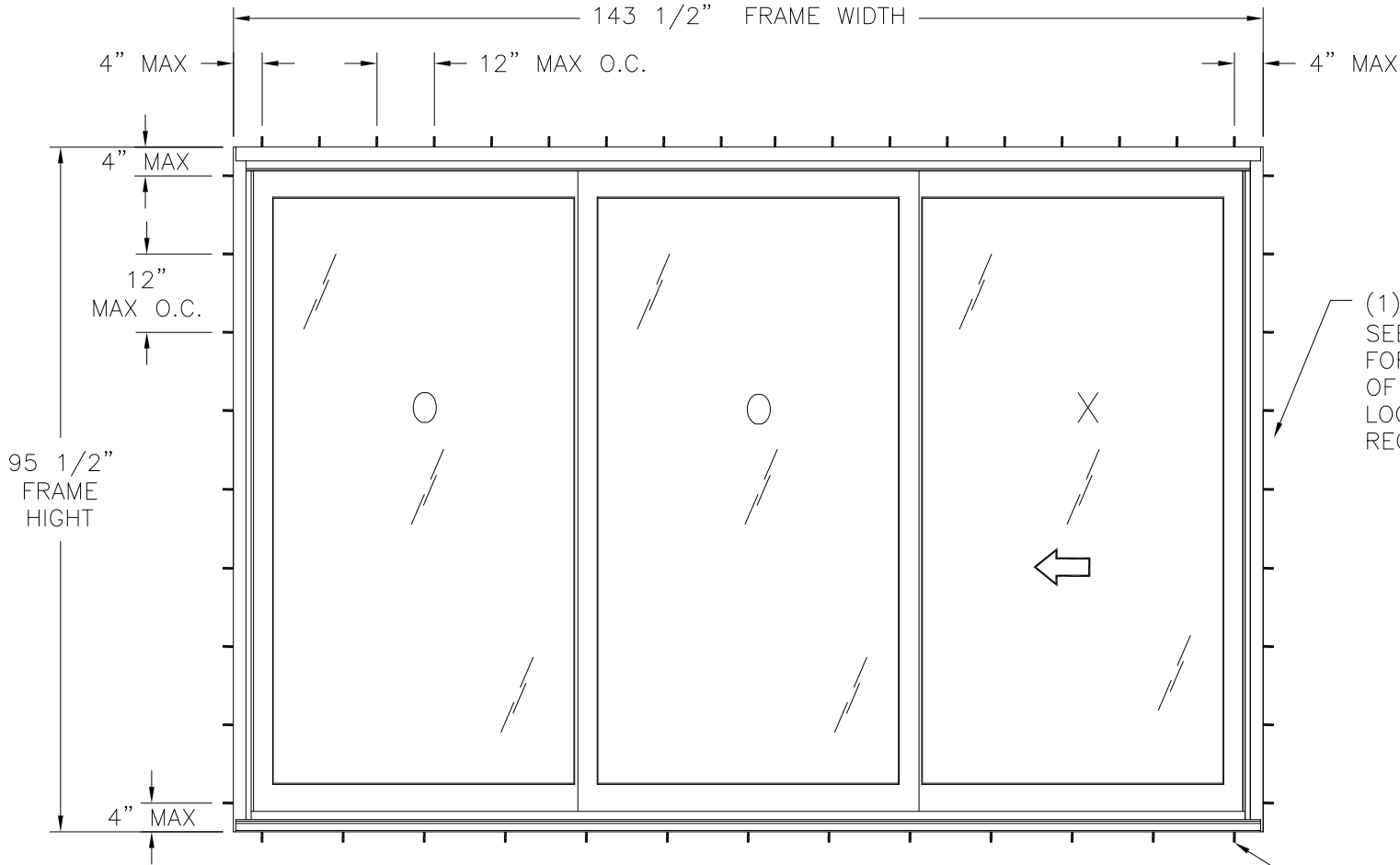
- NOTES:
1. MAXIMUM PANEL SIZE: 49 3/8" x 91 1/4"
 2. MAXIMUM D.L.O.: 42 5/16" x 84 3/4"

(1) ANCHOR PER LOCATION
SEE CHART #1
FOR NUMBER
OF ANCHOR
LOCATIONS
REQUIRED



GLAZING DETAIL

ANCHORS AT SILL
TO BE INSTALLED
THROUGH CLIP



SERIES 1615/1617 PVC SLIDING GLASS DOOR - IMPACT

EXTERIOR VIEW

UP TO 3 PANEL CONFIGURATIONS ARE QUALIFIED
AS LONG AS PANEL AREA DOES NOT EXCEED 31.3 FT², SEE NOTE 21

DESIGN PRESSURE RATING	IMPACT RATING
±50PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

CHART #1

Number of anchor locations required												
Frame Height (in)	Frame Width (in)											
	54.00		72.00		90.00		108.00		126.00		143.50	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
80.00	6	7	7	7	9	7	11	7	13	7	15	7
84.00	6	8	8	8	10	8	12	8	14	8	16	8
90.00	6	8	8	8	10	8	12	8	15	8	17	8
95.50	7	9	9	9	11	9	13	9	15	9	18	9

HARDWARE SCHEDULE

A.	(2) TWO POINT LOCK WITH HANDLE AND KEEPERS AT 38 1/2" FROM BOTTOM RAIL ON EACH OPERABLE PANEL
B.	(4) NYLON ROLLERS AT OPERABLE PANEL BOTTOM RAIL, 4" FROM EACH STILE
C.	(2) ROLLERS WITH SPRING AT BOTTOM OF SCREEN STILES
D.	(2) SCREEN LOCK WITH KEEPER AT SCREEN LOCK STILE, 38" FROM BOTTOM RAIL ON SCREEN
E.	STEEL REINFORCEMENT (9599) AT MEETING STILES
F.	STEEL REINFORCEMENT (9598) AT LOCKING STILES

MI WINDOWS & DOORS, LLC.

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1615/1617 PVC SLIDING GLASS DOOR
IMPACT
ELEVATION AND GLASS DETAIL

DRAWN: A.R.	DWG NO. 08-03127	REV C
SCALE NTS	DATE 06/15/17	SHEET 2 OF 10

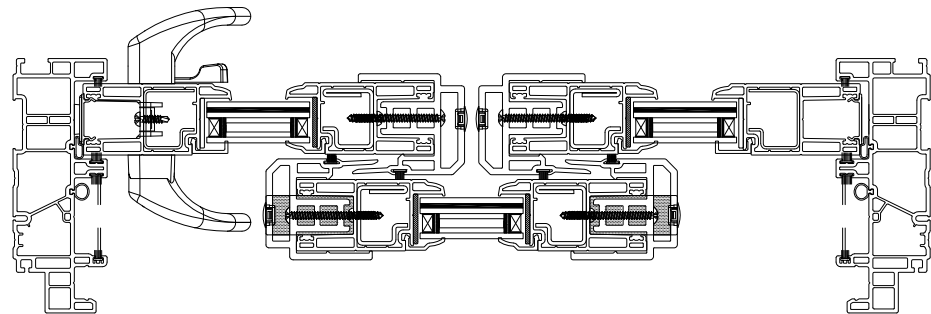
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400 S. PALM AVE, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

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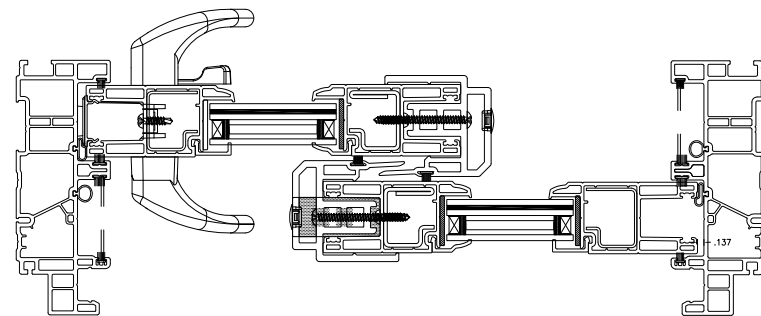


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X00 (OOX OPPOSITE)



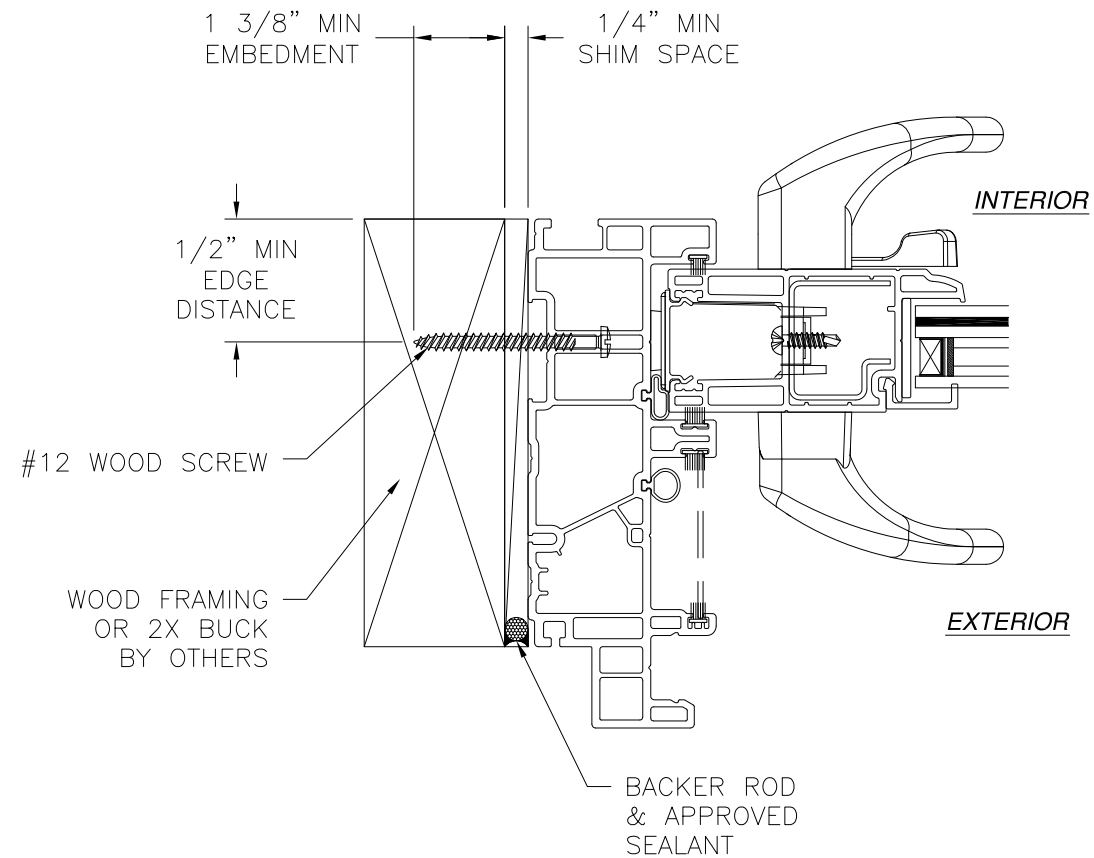
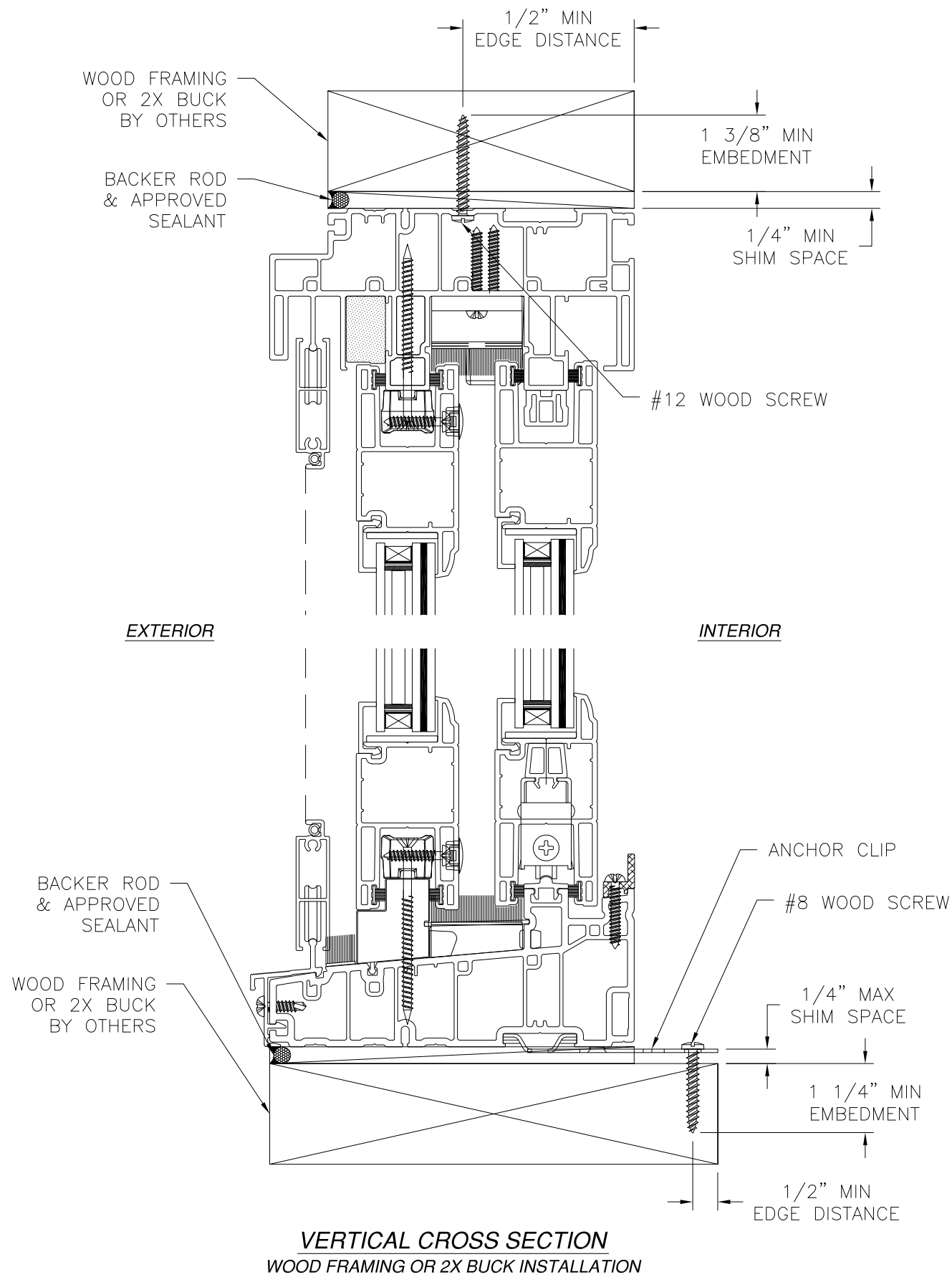
XO (OX OPPOSITE)

LAYOUTS SHOWN AS REFERENCE ONLY.
PANELS MAY BE MIXED & MATCHED AS
NECESSARY

SIGNED: 09/19/2022

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SCALE NTS	DATE 06/15/17	SHEET 3 OF 10	
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E. FL No.: 62514

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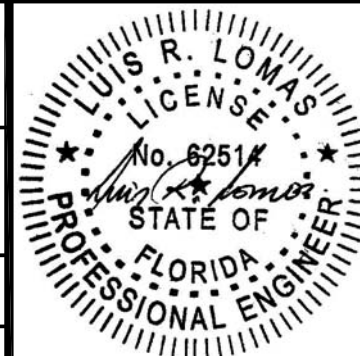
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

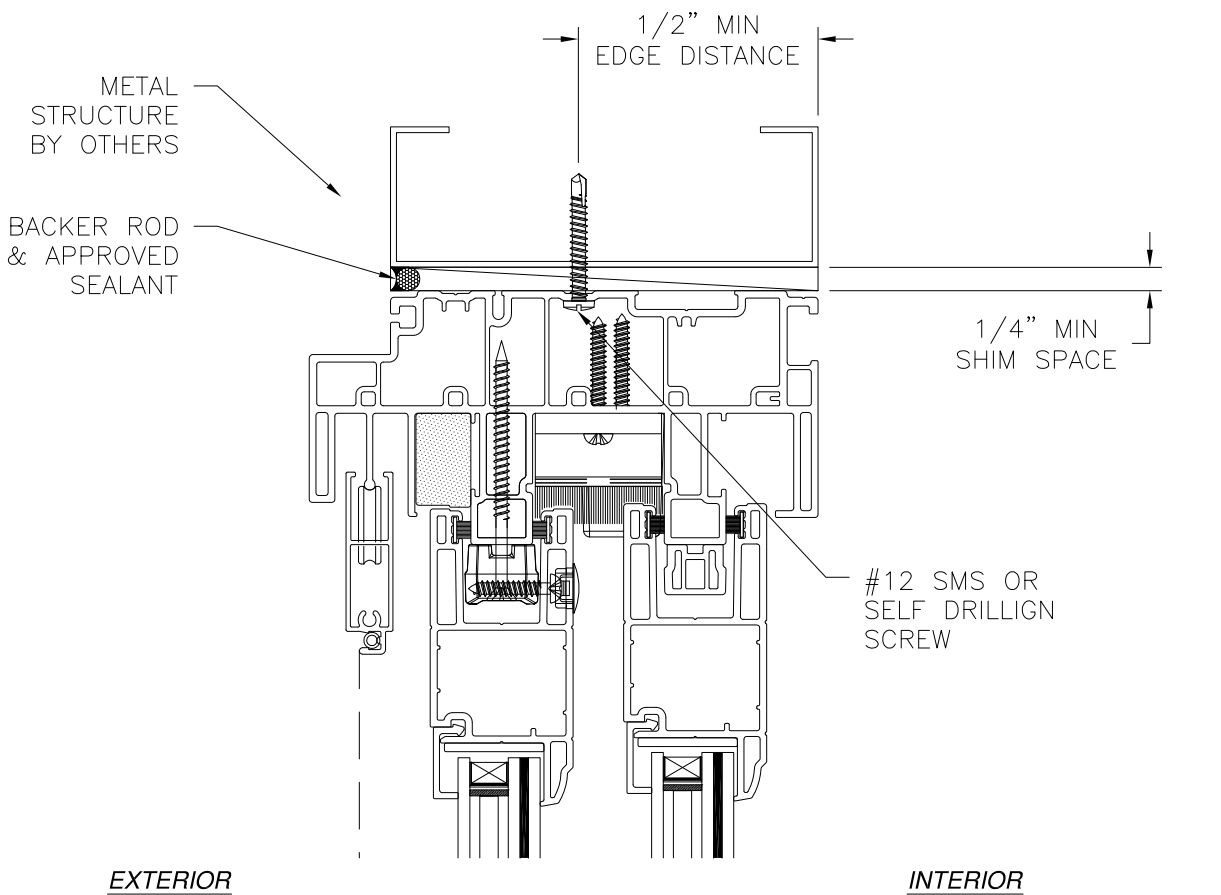
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SCALE NTS	DATE 06/15/17	SHEET 4 OF 10
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

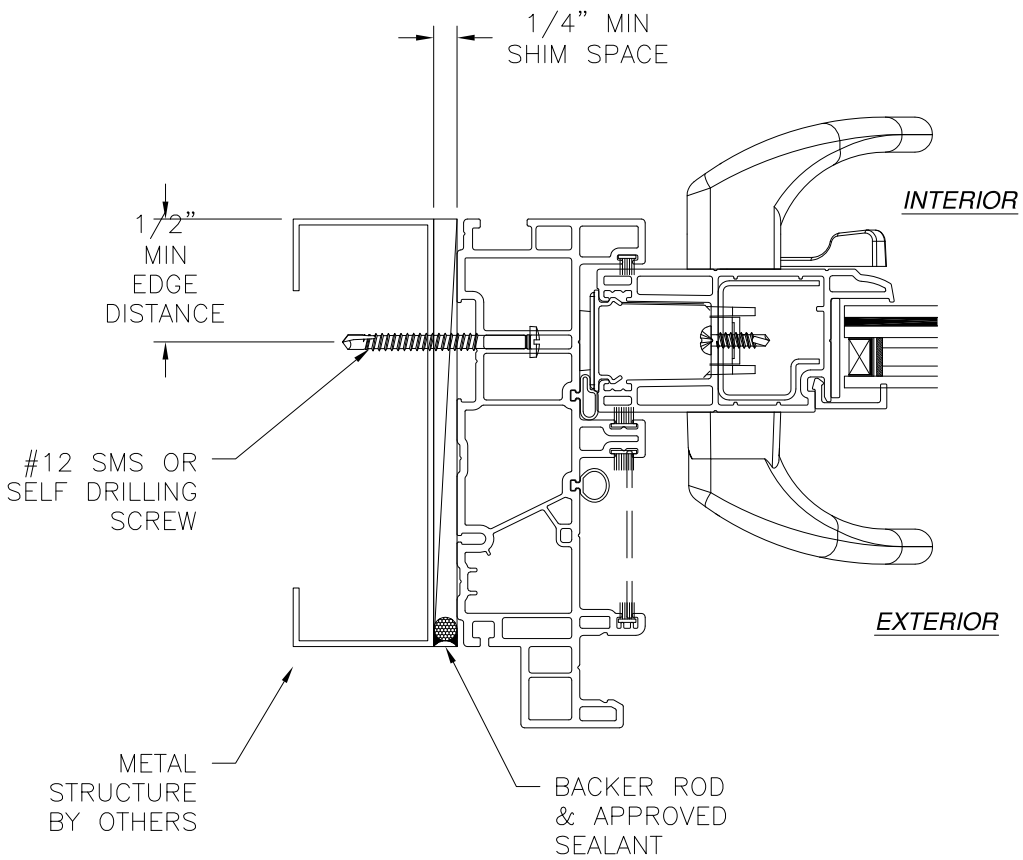


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

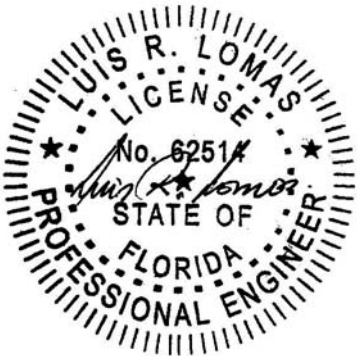


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

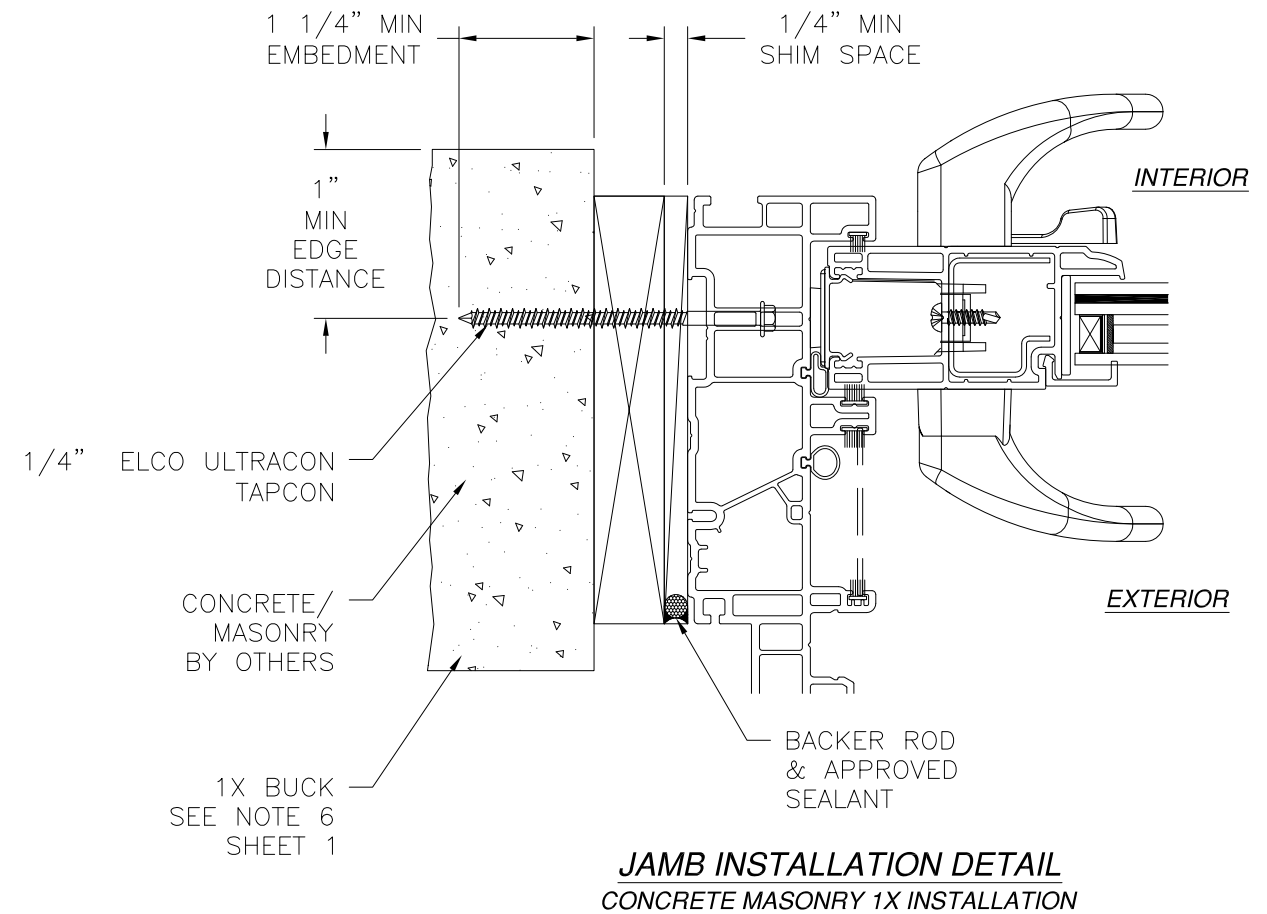
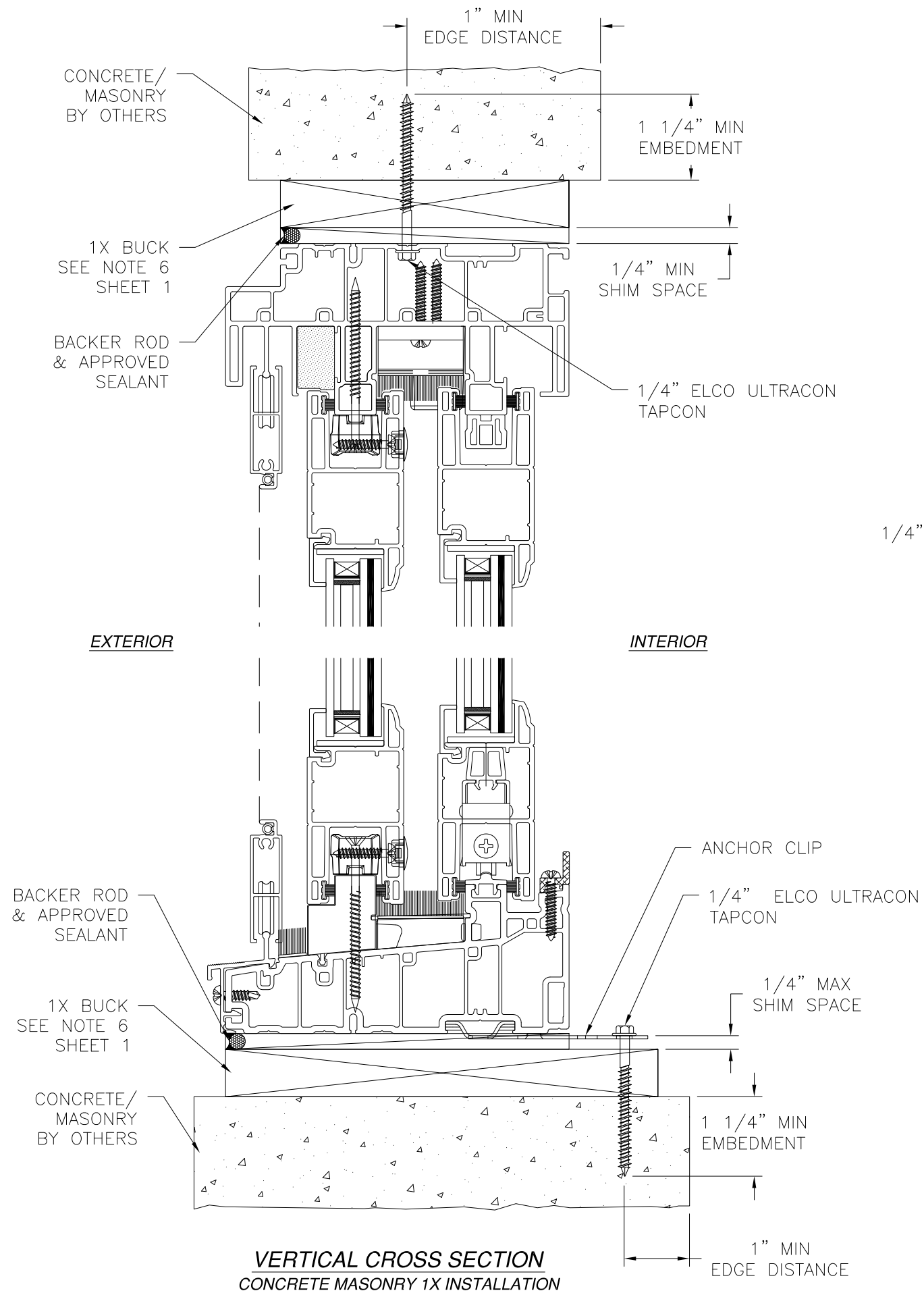
- NOTES:
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 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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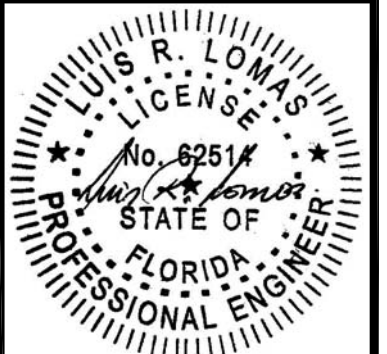


- NOTES:**
1. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
 2. *PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112*

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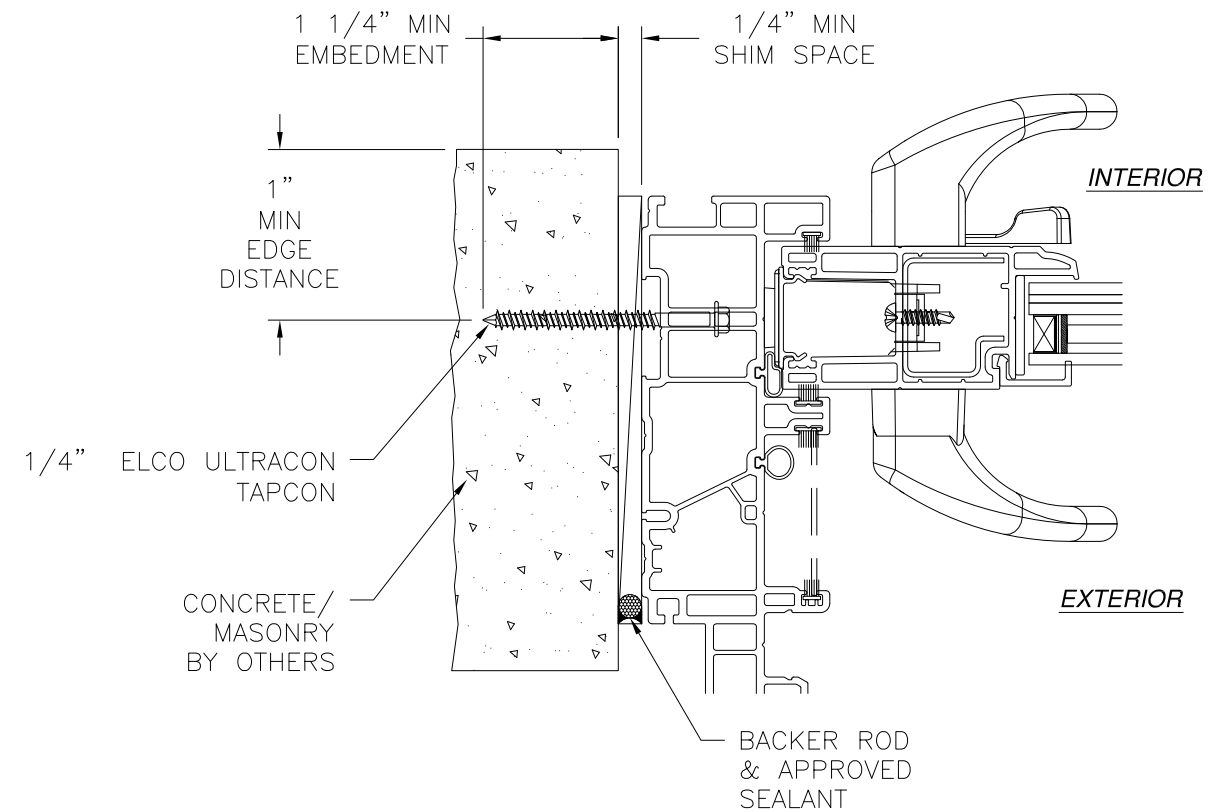
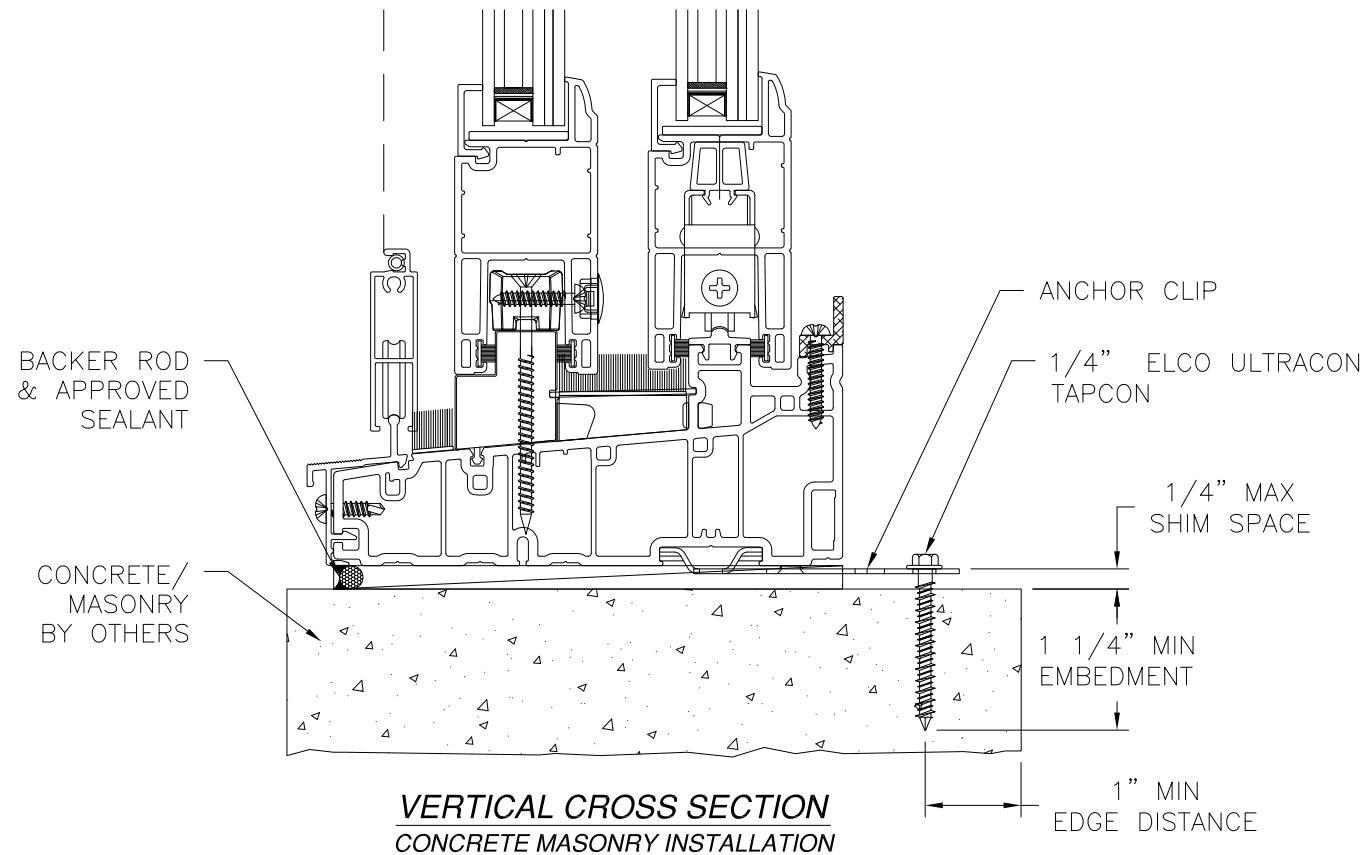
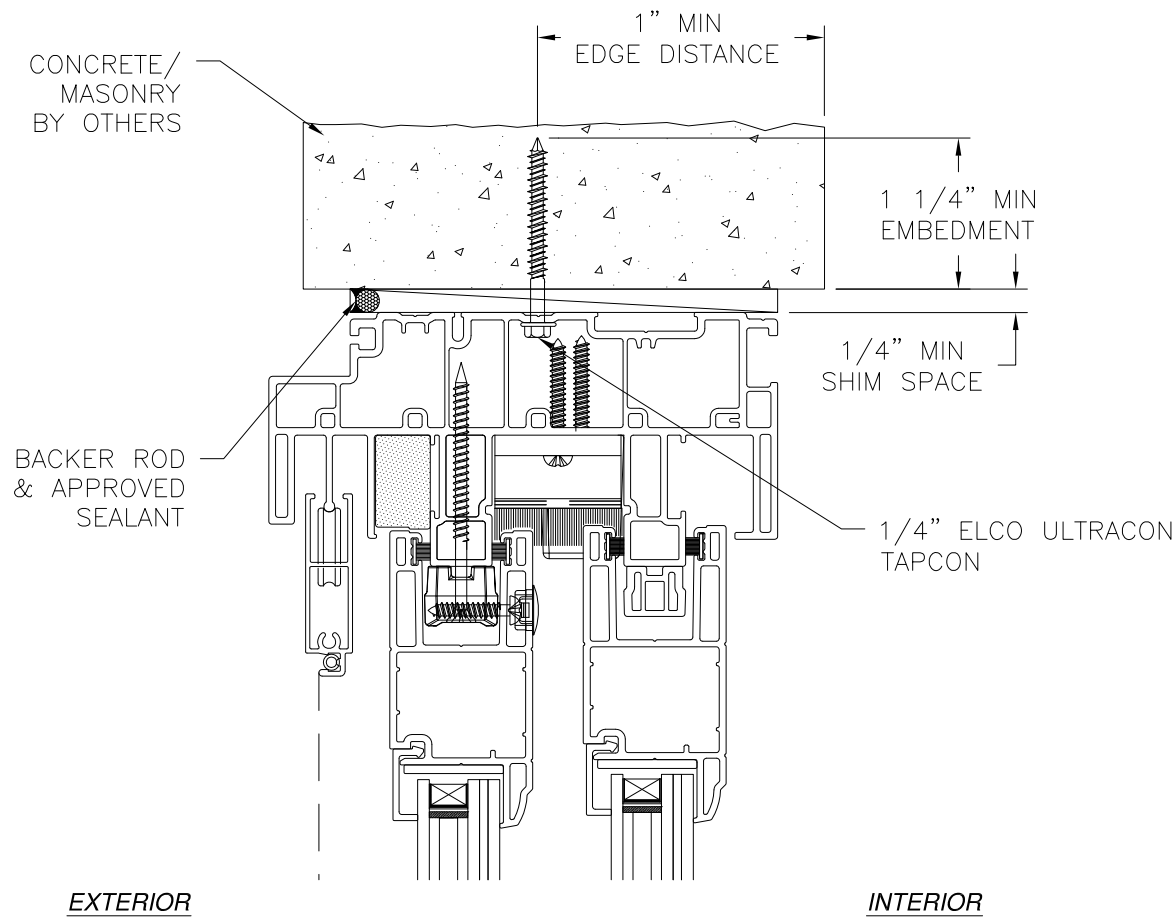
MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
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SCALE NTS	DATE 06/15/17	SHEET 6 OF 10
L. ROBERTO LOMAS P.E. 400 S. PALM AVE, INDIALANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

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JAMB INSTALLATION DETAIL
CONCRETE MASONRY INSTALLATION

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MI WINDOWS & DOORS, LLC.

650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1615/1617 PVC SLIDING GLASS DOOR
IMPACT

INSTALLATION DETAILS

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08-03127

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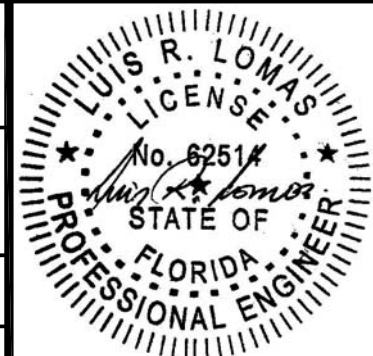
DATE
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7 OF 10

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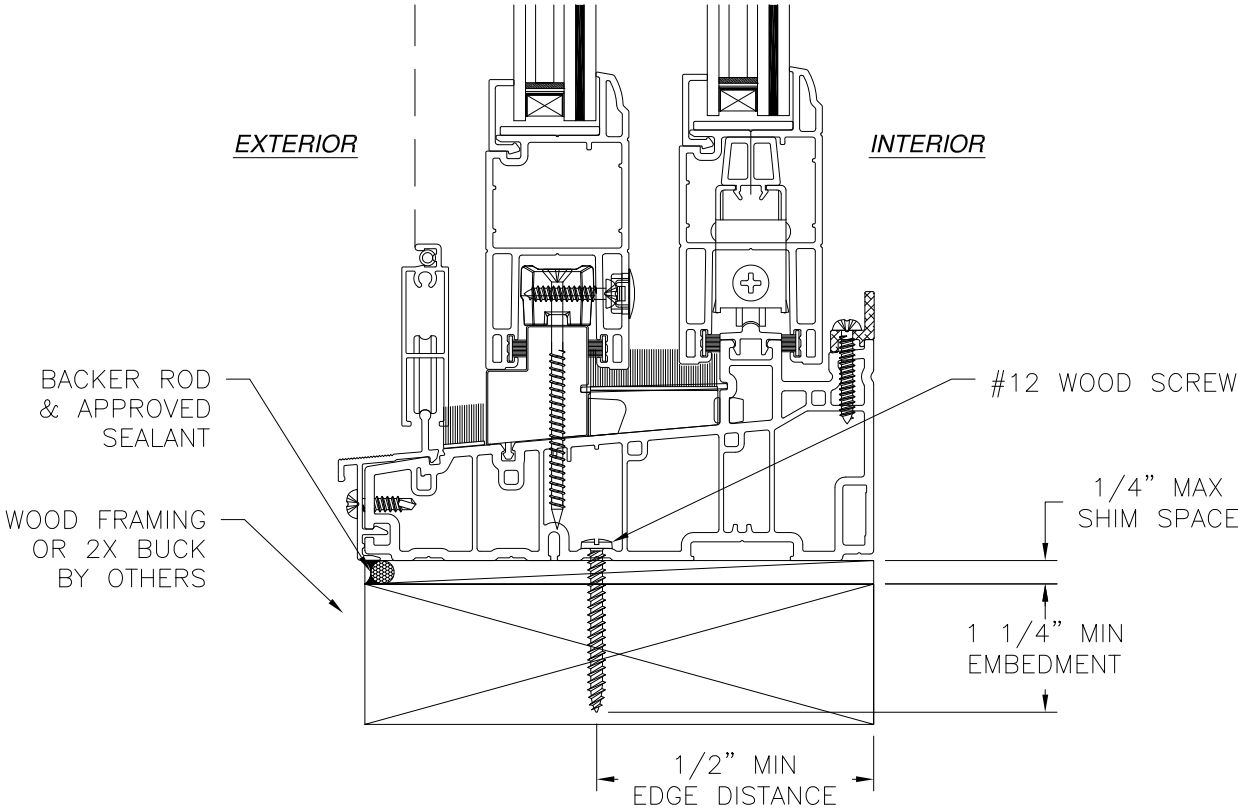
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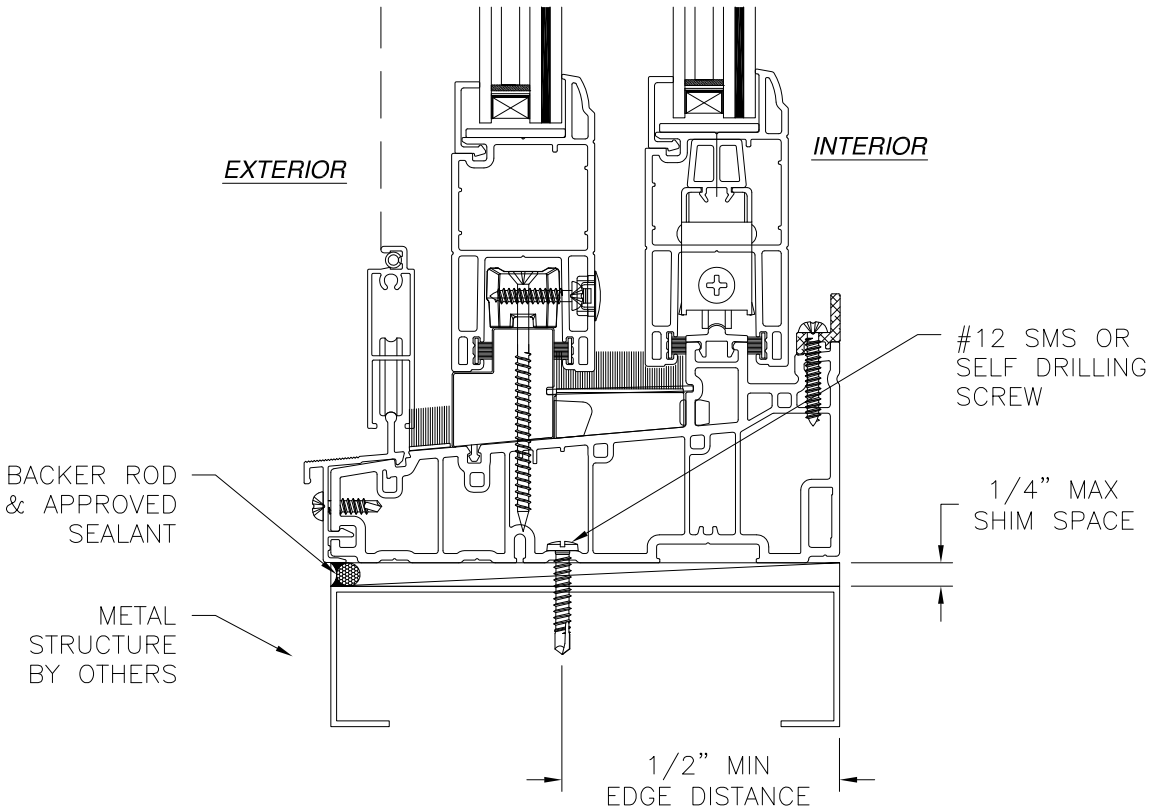
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OPTIONAL SILL INSTALLATIONS

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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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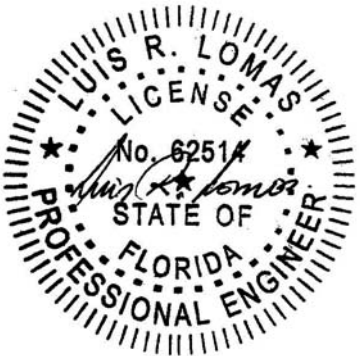
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GRATZ, PA 17030

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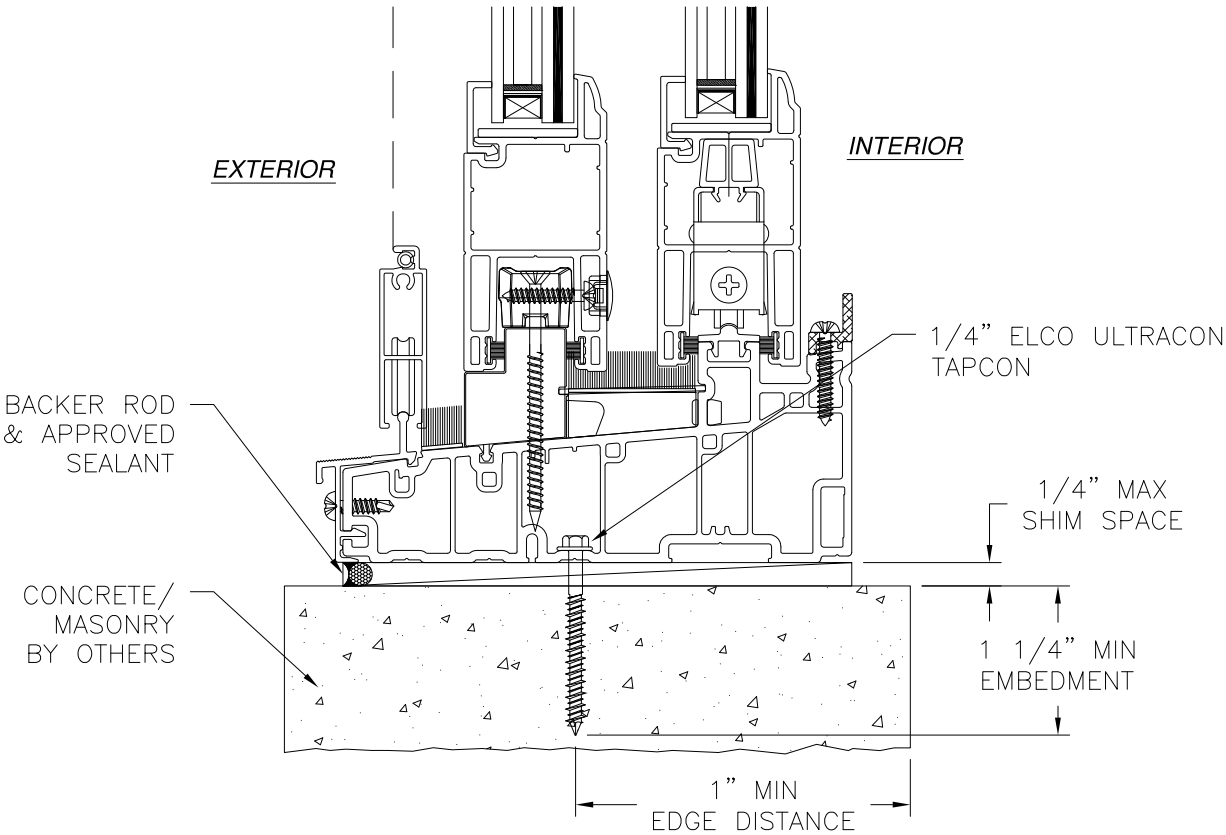
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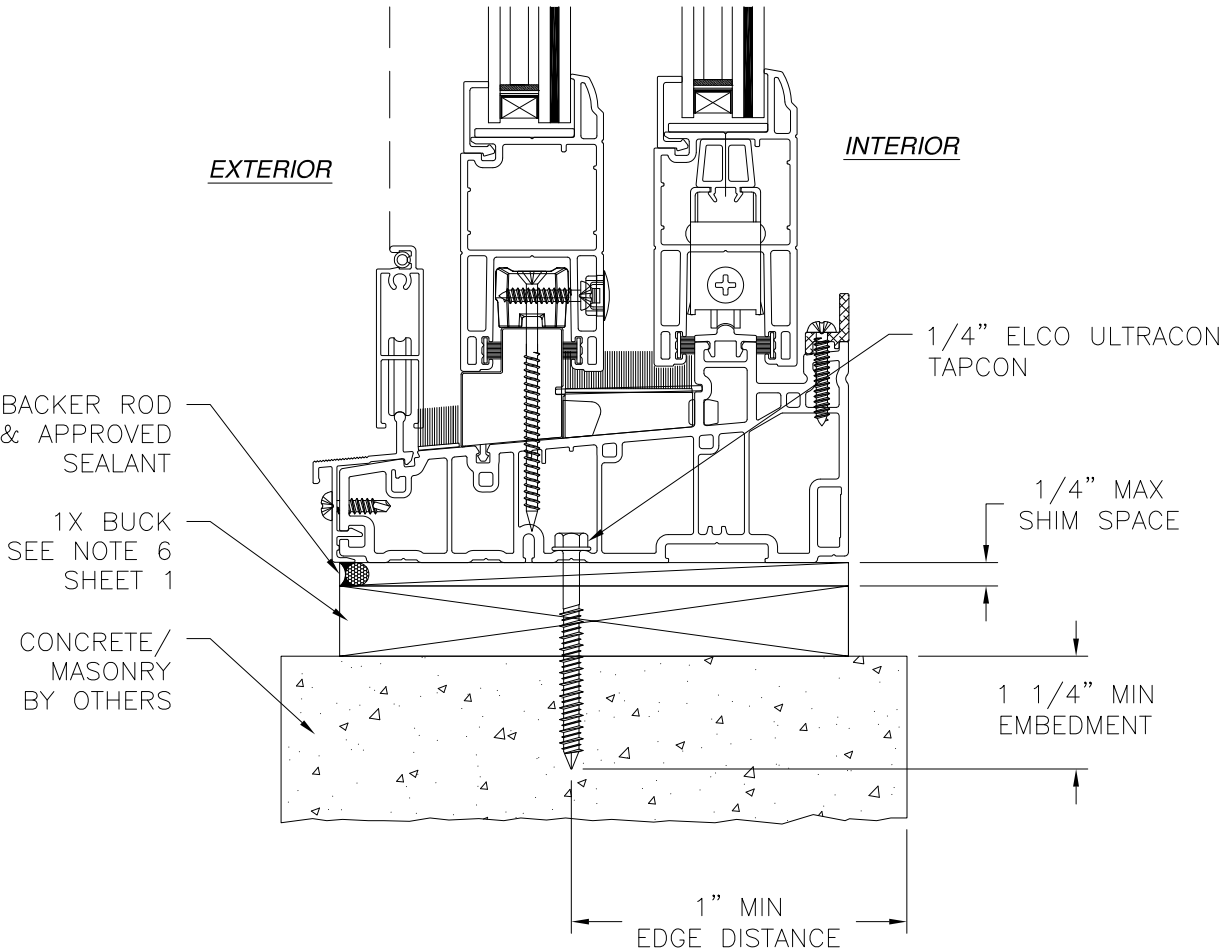
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VERTICAL CROSS SECTION
CONCRETE MASONRY INSTALLATION



VERTICAL CROSS SECTION
CONCRETE MASONRY 1X INSTALLATION

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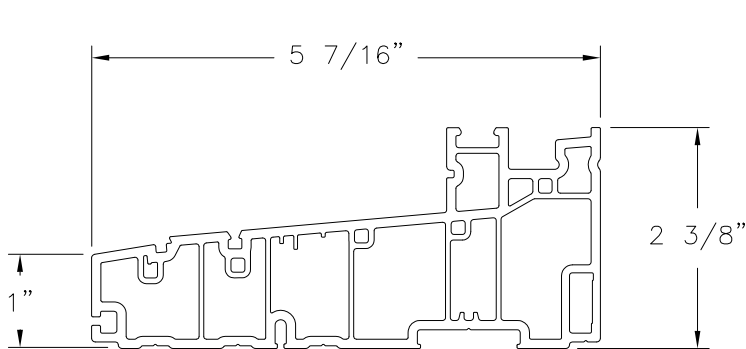
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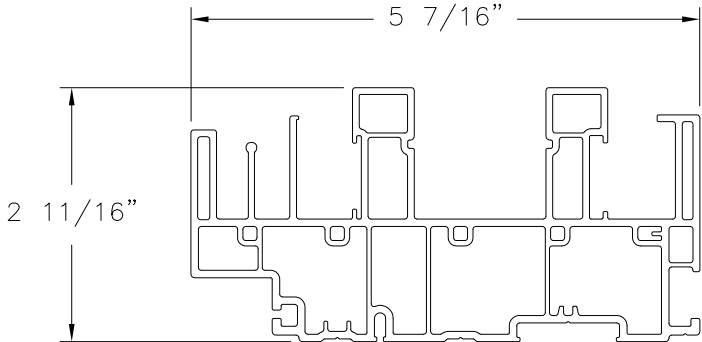


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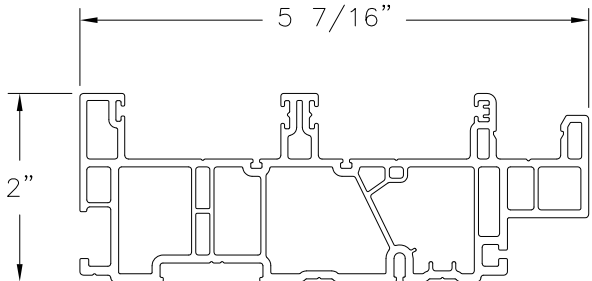
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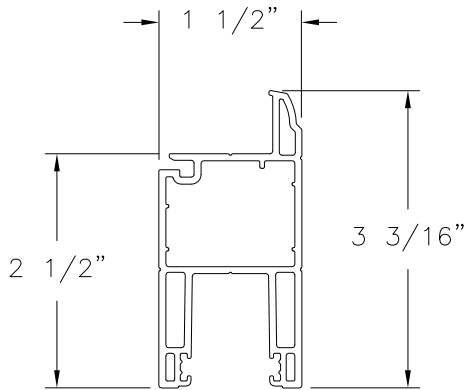
SILL (7000)
EXTRUDED RIGID PVC



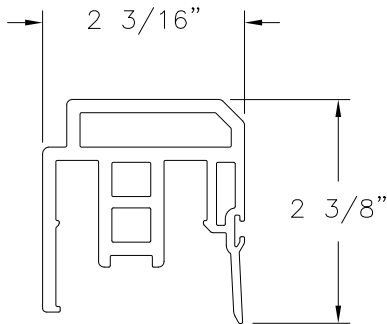
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EXTRUDED RIGID PVC



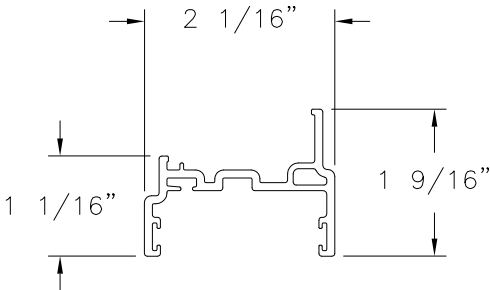
JAMB (7004)
EXTRUDED RIGID PVC



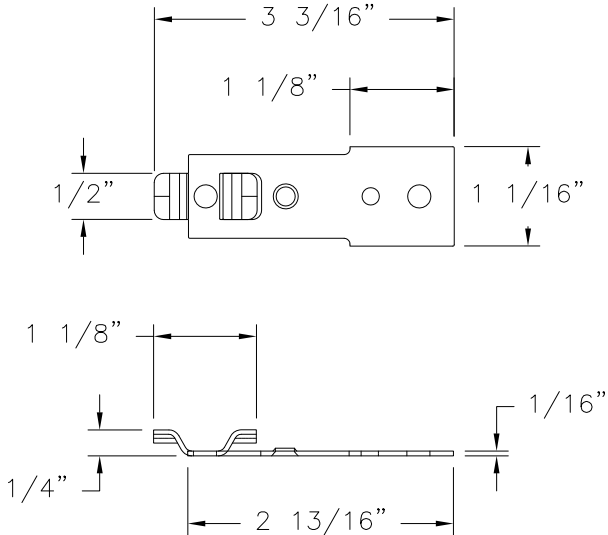
MAIN RAIL/STILE
EXTRUDED RIGID PVC



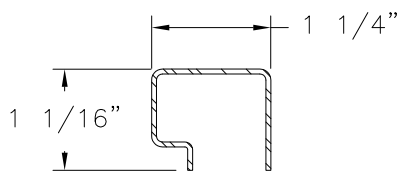
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EXTRUDED RIGID PVC



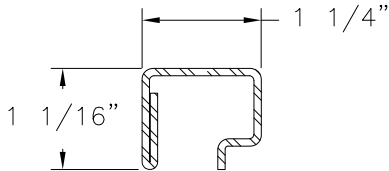
ASTRAGAL
EXTRUDED RIGID PVC



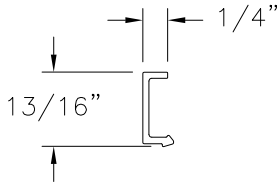
CLIP
GALVANIZED STEEL (.051" THICK)



STILE REINFORCEMENT (9598)
STEEL



**CENTER STILE
REINFORCEMENT (9599)**
STEEL



GLAZING BEAD
EXTRUDED RIGID PVC

MI WINDOWS & DOORS, LLC.
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 1615/1617 PVC SLIDING GLASS DOOR
IMPACT
COMPONENTS

DRAWN:
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DWG NO.
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